

PAT-NO: JP360052533A  
DOCUMENT-IDENTIFIER: JP 60052533 A  
TITLE: PRELIMINARY TREATMENT OF SINTERED RAW MATERIAL  
PUBN-DATE: March 25, 1985

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APPL-NO: JP58158062

APPL-DATE: August 31, 1983

INT-CL (IPC): C22B001/16

US-CL-CURRENT: 75/765

ABSTRACT:

PURPOSE: To reduce moisture over the entire part of a raw material and to reduce the fuel consumption in sintering by mixing iron ore powder, limestone powder, coke powder, etc. under addition of water by a primary mixer then adding return ore to the mixture and granulating the mixture by a secondary mixer.

CONSTITUTION: A prescribed amt. of iron ore powder, limestone powder, coke powder, etc. are fed out of a storage tank 1 and are supplied in a primary mixer 2 to which a prescribed amt. of water is added from a nozzle 3

and the  
powders are mixed. The return ore from screens 18, 18' is added to  
such  
mixture prior to supply of said mixture to a secondary mixer 4. The  
mixture is  
granulated by the mixer 4 and is fed to a sintering machine. Since  
the return  
ore contains virtually no moisture, the moisture over the entire part  
of the  
raw material is reduced and the latent heat of vaporization of the  
moisture by  
sintering is reduced, by which the sintered ore is economically  
produced.

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